What is claimed is:

- 1. An electric circuit test device for testing an electric circuit, the test device being insertable in a receptacle, the receptacle including electrical terminals coupled to the electrical circuit, the device comprising:
 - a housing characterized by a longitudinal axis;
 - a plug blade assembly disposed within the housing and configured to mate with the electrical terminals, electrical continuity being established between the plug blade assembly and the electric circuit;
 - a fault detection circuit coupled to the plug blade assembly and disposed within the housing, the fault detection circuit being configured to detect a circuit status condition in the electrical circuit; and
 - at least one circuit status indicator assembly coupled to the fault detection circuit and normal thereto, the at least one circuit status indicator assembly including a plurality of semiconductor light indicators connected substantially normal to the at least one circuit status indicator assembly, the plurality of semiconductor light indicators being configured to emit a code corresponding to the circuit status condition in a direction normal to the longitudinal axis with a viewing angle less than approximately 30°.
- 2. The device of claim 1, wherein the fault detection circuit is configured to detect the circuit status condition in a single phase grounded neutral electric circuit.

- 3. The device of claim 2, wherein the circuit status condition includes an open hot wire status condition.
- 4. The device of claim 2, wherein the circuit status condition includes an open neutral wire status condition.
- 5. The device of claim 2, wherein the circuit status condition includes an open ground status condition.
- 6. The device of claim 2, wherein the circuit status condition includes a hot/neutral reversed polarity status condition.
- 7. The device of claim 2, wherein the circuit status condition includes a properly wired and grounded status condition.
- 8. The device of claim 1, wherein the fault detection circuit includes a mis-wire protection circuit portion, the mis-wire protection circuit portion prevents component destruction during a mis-wire condition, such that the device is operable after the mis-wire condition.
- 9. The device of claim 8, wherein the mis-wire protection circuit portion includes at least one diode component inhibiting reverse biased current.
- 10. The device of claim 2, wherein the single phase grounded neutral electric circuit supports 120 VAC, 277 VAC, or 347 VAC.

- 11. The device of claim 1, wherein the fault detection circuit includes a redundant ground current safety portion that prevents ground current from exceeding 500 microamperes.
- 12. The device of claim 11, wherein the ground current safety portion includes a plurality of resistors in series.
- 13. The device of claim 1, wherein the fault detection circuit is configured to detect the circuit status condition in a multi-phase center grounded electric circuit.
- 14. The device of claim 13, wherein the circuit status condition includes an open hot wire condition.
- 15. The device of claim 13, wherein the circuit status condition includes an open ground status condition.
- 16. The device of claim 13, wherein the circuit status condition includes a hot and ground reversed status condition.
- 17. The device of claim 13, wherein the circuit status condition includes an open hot wire status condition.
- 18. The device of claim 13, wherein the circuit status condition includes a properly wired and grounded status condition.

- 19. The device of claim 1, wherein the code emitted by the at least one circuit status indicator assembly is a Boolean code.
- 20. The device of claim 1, wherein the plurality of semiconductor light indicators further comprises a plurality of LED elements coupled to the fault detection circuit by way of a circuit board standoff element, the plurality of LED elements being configured to display the code.
- 21. The device of claim 20, wherein the plurality of LED elements comprise LEDs of a different color.
- 22. The device of claim 1, wherein the at least one fault detection circuit is implemented on a printed circuit board, the at least one fault detection circuit being coupled to the plug blade assembly by a torsion spring connector disposed on the printed circuit board.
- 23. The device of claim 1, further comprising an acoustic device configured to emit the circuit status condition.
- 24. The device of claim 1, wherein the fault detection circuit is configured to detect the circuit status condition in a multi-phase center grounded electric circuit.
- 25. An electric circuit test device for testing an electric circuit, the test device comprising:

a housing characterized by a longitudinal axis;

a connector cable coupled to the electric circuit and to the housing;

electrical terminals coupled to the connector cable, electrical continuity being

established between the electrical terminals and the electric circuit;

a fault detection circuit coupled to the electrical terminals and disposed within

the housing, the fault detection circuit being configured to detect a

circuit status condition in the electrical circuit and connector cable; and

at least one circuit status indicator assembly coupled to the fault detection

circuit and normal thereto, the at least one circuit status indicator

assembly including a plurality of semiconductor light indicators

connected substantially normal to the at least one circuit status indicator

assembly, the plurality of semiconductor light indicators being

configured to emit a code corresponding to the circuit status condition in

a direction normal to the longitudinal axis with a viewing angle less than

approximately 30°.

26. The device of claim 25 wherein the electric circuit includes a receptacle with second

electrical terminals coupled to the electric circuit, further comprising a second electric

circuit test device coupled to the receptacle and the connector, electrical continuity

being established between the receptacle and the connector configured to detect a

circuit status condition in the electrical circuit.

27. The device of claim 25 wherein the electric circuit includes a receptacle with

second electrical terminals coupled to the electric circuit, further comprising:

a second housing characterized by a longitudinal axis;

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- a plug blade assembly disposed within the housing and configured to mate with the second electrical terminals, electrical continuity being established between the plug blade assembly and the second electrical terminals;
- a second fault detection circuit coupled to the plug blade assembly and disposed within the housing, the fault detection circuit being configured to detect a circuit status condition in the electrical circuit; and
- at least one second circuit status indicator assembly coupled to the fault detection circuit and normal thereto, the at least one circuit status indicator assembly including a plurality of semiconductor light indicators connected substantially normal to the at least one circuit status indicator assembly, the plurality of semiconductor light indicators being configured to emit a code corresponding to the circuit status condition in a direction normal to the longitudinal axis with a viewing angle less than approximately 30°.
- 28. The device of claim 27, wherein the electric circuit includes a load device further comprising a ground sensing wire coupled to the fault detection circuit, the ground sensing wire also being configured to be connected to a ground disposed on the load device, the circuit indicator assembly being configured to emit the circuit status condition detected in the load device, the connector cable, and the electric circuit.
- 29. The device of claim 25, wherein the electric circuit includes a load device further comprising a ground sensing wire coupled to the fault detection circuit, the ground sensing wire also being configured to be connected to a ground disposed on the

load device, the circuit indicator assembly being configured to emit the circuit status condition detected in the load device, the connector cable, and the electric circuit.

- 30. The device of claim 29, wherein the circuit status indicator assembly further includes at least one standoff member coupled to the printed circuit board and extending in a direction substantially normal to the printed circuit board, the plurality of semiconductor light indicators being coupled to the stand-off member and extending in a direction substantially normal to the at least one standoff member.
- 31. The device of claim 29, wherein the circuit status indicator assembly includes an electromagnetic emission device configured to emit the circuit status condition.
- 32. The device of claim 31, wherein the electromagnetic emission device includes an RF transmission device.
- 33. The device of claim 25, wherein the circuit status condition includes an open hot wire condition.
- 34. The device of claim 25, wherein the circuit status condition includes an open ground status condition.
- 36. The device of claim 25, wherein the circuit status condition includes a hot and ground reversed status condition.

- 37. The device of claim 25, wherein the circuit status condition includes an open hot wire status condition.
- 38. The device of claim 25, wherein the circuit status condition includes a properly wired and grounded status condition.
- 39. The device of claim 25, wherein the fault detection circuit is configured to detect the circuit status condition in a single phase grounded neutral electrical circuit.
- 40. The device of claim 39, wherein the single phase grounded neutral electric circuit supports 120 VAC, 277 VAC, or 347 VAC.
- 41. The device of claim 25, wherein the fault detection circuit is configured to detect the circuit status condition in a multi-phase center grounded electric circuit.

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